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RELIABILITY PREDICTION

Model : S-240 Data:2000-01-05

Style	Part Type	Q'ty	λ_g	π_Q	λ_{eg}	%
9.1	Resistor-Film, Insulated (RL)	53	0.003700	10	1.961000	35.176
9.1	Resistor-Wirewound Power (RW)	1	0.008500	10	0.085000	1.525
9.1	Resistor-Film, Variable (RVC)	1	0.040000	10	0.400000	7.175
9.1	Resistor-Thermistor (RTH)	1	0.001400	10	0.014000	0.251
10.1	Capacitor-Metal, Plastic (CH)	12	0.000510	10	0.061200	1.098
10.1	Capacitor-Ceramic(Gen.) (CK)	15	0.001700	10	0.255000	4.574
10.1	Capacitor-Aluminum Dry (CE)	13	0.001300	10	0.169000	3.032
6.1	Diode-Gen. Purpose Analog	1	0.003600	8	0.028800	0.517
6.1	Diode-Switching	11	0.000940	8	0.082720	1.484
6.1	Diode-Fast Recovery Power Rectifier	4	0.023000	8	0.736000	13.202
6.1	Diode-Power Rectifier / Schottky Power	4	0.002800	8	0.089600	1.607
6.1	Diode-Voltage Ref/Reg. (Avalanche & Zener)	6	0.003300	8	0.158400	2.841
6.1	Diode-Transient Suppressor/Varistor	2	0.002900	8	0.046400	0.832
6.10	Diode-Thyristor/SCR	1	0.002500	8	0.020000	0.359
6.3	Transistor-NPN/PNP	5	0.000150	8	0.006000	0.108
6.4	Transistor-MOSFET	2	0.014000	8	0.224000	4.018
6.11	OPTO-isolator	2	0.027000	8	0.432000	7.749
6.11	OPTO-Emitter	1	0.000470	8	0.003760	0.067
5.1	Linear Microcircuits	5	0.009500	10	0.475000	8.521
11.1	Transformer Switching	1	0.000610	3	0.001830	0.033
11.2	Coil Fixed inductor or choke	4	0.000032	3	0.000384	0.007
15.1	Connector- Rectangular	2	0.050000	2	0.200000	3.588
17.1	Single Connections-Reflow solder	383	0.000069	1	0.026427	0.474
17.1	Fuses Clip-Clip Termination	2	0.000120	1	0.000240	0.004
22.1	Fuses	1	0.010000	1	0.010000	0.179
16.1	Plated Through Hole Circuit Boards	2	0.022000	2	0.088000	1.579
Total Failure rate:					5.574761	100%

- **Data Base: MIL-HDBK-217F ,Notice 2, Parts Count**
- **Env.: GB**
- **Exclude: FAN**

MTBF: 179379.89 **hrs**

Approved by: David Wang Compiled by: Kim Tseng